BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements and Asphalting to HMT Layout 6th and 7th Block roads in Ward No. 09, Vidyaranyapura Sub Division.**

			Estimate Cost:					2000000.00	
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 138 / Item No. 19.1/ PWD SR 2014-15**	Cum							
	Drain Desilting								
	10th Cross		2	77.00	0.45	0.35	24.26		
	9th Cross		2	93.00	0.45	0.35	29.30		
	8th Cross		2	100.00	0.45	0.35	31.50		
	7th Main Road		2	158.00	0.45	0.30	42.66		
	Cross Road		2	53.00	0.45	0.35	16.70		
			2	173.00	0.45	0.35	54.50		
	Berm Cutting								
	10th Cross		2	77.00	0.90	0.20	27.72		
	9th Cross		2	93.00	0.90	0.20	33.48		
	8th Cross		2	100.00	0.90	0.20	36.00		
	7th Main Road		2	158.00	0.90	0.20	56.88		
	Cross Road		2	53.00	0.90	0.20	19.08		
			2	173.00	0.90	0.20	62.28		
	Culvert		1	9.00	2.00	1.20	21.60		
							455.94	75.60	**34469.00**
	Basic Rate	70.00							
	Area Weightage @8%	5.60							
	Total	**75.60**							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2014-15**	Cum							
	Bottom Concrete		1	9.00	2.00	0.15	2.70		
							2.70	4847.04	**13087.00**
	Basic Rate	4488.00							
	Area Weightage @ 8%	359.04							
	Total	**4847.04**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
3	KSRB 5.4-3: Providing and constructing granite / trap / basalt size stone masonry in superstructure **with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 **Page No. 23 / Item No. 5.12 / PWD SR 2014-15**	Cum							
			1x2	9.00	0.60	0.90	9.72		
							9.72	4773.60	**46399.00**
	Basic Rate	4420.00							
	Area Weightage @ 8%	353.60							
	Total	**4773.60**							
4	KSRB 15.1.4: Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications cement mortar 1:4. **Page No. 109 / Item No. 15.4 / PWD SR 2014-15**	Sqm							
			1x2	9.00		0.90	16.20		
							16.20	92.88	**1505.00**
	Basic Rate	86.00							
	Area Weightage @ 8%	6.88							
	Total	**92.88**							
5	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6/ PWD SR 2014-15**	Cum							
	Pointing		1	9.00	1.80	0.10	1.62		
							1.62	5327.64	**8631.00**
	Basic Rate	4933.00							
	Area Weightage @ 8%	394.64							
	Total	**5327.64**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
6	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, **No. 13/ Item No. 4.11/ PWD SR 2014-15**	Cum							
			1	9.00	1.80	0.23	3.73		
							3.73	6065.28	**22599.00**
	Basic Rate	5616.00							
	Area Weightage @ 8%	449.28							
	Total	**6065.28**							
7	KSRB 4.9.1: **Providing mild steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 **Page No. 17 / Item No. 4.45 / PWD SR 2014-15**	Qtl							
	For Roof, Columns @ 90 Kg / Cum		0.90	3.73			**3.35**	7975.80	**26746.00**
	Basic Rate	7385.00							
	Area Weightage @ 8%	590.80							
	Total	**7975.80**							
8	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31/ PWD SR 2014-15**	Sqm							
			1	9.00	0.60		5.40		
			1x2	9.00		0.23	4.14		
			1x2	1.80		0.23	0.83		
							10.37	292.68	**3035.00**
	Basic Rate	271.00							
	Area Weightage @ 8%	21.68							
	Total	**292.68**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	10th Cross		1	77.00	5.00		385.00		
	9th Cross		1	93.00	5.00		465.00		
	8th Cross		1	100.00	5.00		500.00		
	7th Main Road		1	158.00	5.00		790.00		
	Cross Road		1	53.00	5.00		265.00		
			1	173.00	5.00		865.00		
							3270.00	12.20	**39907.00**
	Basic Rate	11.30							
	Area Weightage @ 8%	0.90							
	Total	**12.20**							
5	KSRRB M500-6: **Providing and applying primer coat for surfaces of medium porosity** like cement stabilized soil base @ 1.10 Kg/Sqmt over prepared surface with S.S bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all material, labour HOM of machineries complete as per specifications. MORTH specification NO. 502, **Page No. 157 / Item No. 21.5 / PWD SR 2014-15**	Sqm							
			Qty Vide Item No. 04				**3270.00**	74.52	**243680.00**
	Basic Rate	69.00							
	Area Weightage @ 8%	5.52							
	Total	**74.52**							
6	KSRRB M500-18: Providing and laying **semi dense bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 508 complete in all respects as per specifications. **using 100-120 TPH capacity H.M.P with sensor paver grading II (25-30mm) with 5% CRMB-55 grade, No. 160 / Item No. 21.21.2 / PWD SR 2014-15**	Cum							
	10th Cross		1	77.00	5.00	0.025	9.63		
	9th Cross		1	93.00	5.00	0.025	11.63		
	8th Cross		1	100.00	5.00	0.025	12.50		
	7th Main Road		1	158.00	5.00	0.025	19.75		
	Cross Road		1	53.00	5.00	0.025	6.63		
			1	173.00	5.00	0.025	21.63		
							81.75		
	Consider 10% For Depression Filling						8.18		
							89.93	11070.00	**995470.00**
	Basic Rate	10250.00							
	Area Weightage @ 8%	820.00							
	Total	**11070.00**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
7	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
			Vide Item No. 1				**341.96**	73.57	**25157.00**
	Average weight of earth 1.28 tonne / kg for 2x1.28x2.00=5.12	5.12							
	Add loading and unloading charges Vide item no.17.1 P.no.130	63.00							
		68.12							
	Area Weightage @ 8%	5.45							
	Total	**73.57**							
8	Sub Total								**1979173.00**
9	For Third Part QC inspection Charges @ 1% of Estimate Cost								**19792.00**
10	Miscellaneous and other Charges								**1035.00**
								Total	**2000000.00**

(Rs. Twenty Lakhs Only)

Administrative ... Twenty lakhs only ... is accorded ... P-1771 ... registered as ... Subject to conditions contained enclosed memo. No: ... Dt. ...

AE/JE

EE (BTP. Div.)

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2014-15.
3 This work included under POW Grants 2014-15.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
W-09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

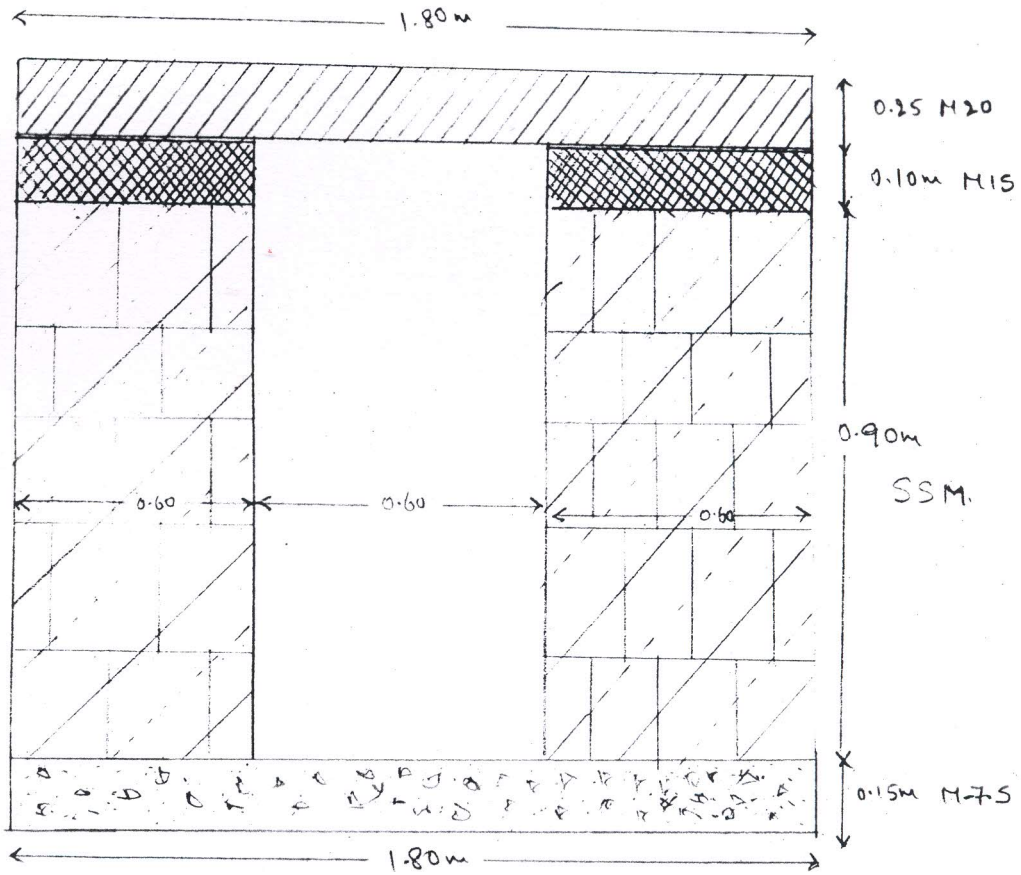
Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVELY SANCTIONED FOR Rs.....
Rupees Twenty Lakhs only
Under P-1771

Registered as EE ( ) No 9...9...
Subject to conditions contained in enclosed memo EE ( ) No /9/...
Dt Estimate A/Sanctioned
No: 1066/2014-15
dated 4-12-2014 Rs 20.00 Lakhs

Joint Commissioner
(Yelahanka Zone)
BBMP. Bengaluru-92.

Technical Sanction for Rs. 20.00 Lakhs
Twenty lakhs only
144/14-15
Subject
TS/EE/144/14-15 29/10/14
EE (BTP. Div.)



CROSS SECTION OF CULVERT

A6

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ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ,
ಯಲಹಂಕ ವಲಯ,
ಬೃ. ಬೆಂ. ಮ. ಪಾ., ಬೆಂಗಳೂರು-97.